

## ABSTRACT OF THE DISCLOSURE

Process which, by spray-controlled, directly injected combustion with the aid of step-by-step technical development of the whole of the combustion system, achieves an intensified mixing process during injection and after-burning, which speeds up soot oxidation during various stages so effectively that the engine can be run with sufficiently high EGR content for desired NOx and soot content down to ultra-low emissions, at the same time as parameters which control the efficiency are decoupled from measures for desired emission level, thereby enabling optimum efficiency to be attained for the process.